## SOVIET MATHEMATICS — DOKLADY

## INDEX OF AUTHORS

Volume 42	January-June 1991	Russian Toms 313-315
	On holomorphic quasidiagonalization and Sobolevskii, P. E. The motion	
Alekseeva, E. I. ar dynamical sys	nd Kirzhner, V. M. Dependence of stems on the structure of a coupling	between them 10
	On difference schemes for problems	
Amirov, R. Kh.	On uniqueness of a solution of the	e Cauchy problem for an
	d Stanyukovich, K. P. The logistic	
doubling and	Fermat numbers	
	solutions of the logistic difference ed	
	functional limit theorems for semin	
	lications for queueing networks	
	Higher-order conditions in anormal equality type	
	heory of quadratic mappings in Ban	
	Giner, V. B. On multipliers of enti	
	See Shakhmurov, V. B.	re junetions of junite oracle 333
	On the well-posedness of difference	schemes with generalized
initial data		624
	nd Knyazev, A. V. Efficient compu	
	mposites of a periodic structure of ess	
	operties of symmetry elements of pace and in Euclidean space	
	A. Application of matrix coefficier	
lems in math	ematical analysis	
Belitskii, G. R. an	d Tkachenko, V. A. On locally a	nalytic solvability of mul-
	l functional equations in the neigh	
point		239
	description of the structure of polyr	
	plane	
	d Krasnosel'skii, M. A. On bifurd	
Bogolyubov, N. N	., Mikityuk, I. V., and Prikarpat-ski	
	tum Lie algebra of currents on the	
	the stability of solutions of differentia	
4.0 0.1100.000 0.000	es	
	Asymptotic behavior of the Green j he kernels of complex powers of the	resolvent of elliptic opera-
tors		559

	14
	17
	880
Boimatov, K. Kh. and Kostyuchenko, A. G. Spectral asymptotics of polynomial pencils of differential operators	120
Boltyanskii, V. G. and Soltan, P. S. Solution of Hadwiger's problem for a class of convex bodies	18
Borovikov, I. P. See Borovikov, V. P.	
Borovikov, V. P., Borovikov, I. P., and Gaponenko, Yu. L. On the method of regularization in the space of piecewise continuous functions	23
groups	247
Borovskikh, Yu. V. See Korolyuk, V. S.	
Bovdi, A. A. and Khripta, I. I. The Engel property of the multiplicative group of a group algebra	243
Budaev, V. D. A criterion for the unconditional basis property of systems of eigenfunctions and associated functions of ordinary differential operators.	252
Bukhgeim, A. L. and Kazantsev, S. G. Elliptic systems of Beltrami type and tomography problems	704
Chentsov, A. G. Asymptotic effectiveness and extensions in the class of finitely additive measures	615
Cherednichenko, V. G. Estimates of the potential of masses, and solvability of the inverse problem	107
Chilin, V. I. See Sukochev, F. A.	
Chirkunov, Yu. A. Group classification of systems of first-order linear differential equations with two unknown functions of two variables	404
Denisov, V. N. On stabilization of means of the solution of the Cauchy problem for hyperbolic equations	834
. On the stabilization of means of the solution of the Cauchy problem for	738
hyperbolic equations in symmetric spaces	130
hyperbolic and parabolic equations	708
order parabolic equation	805
Derkach, V. A. and Malamud, M. M. The resolvent matrix of an Hermitian operator and a moment problem with gaps	429
Din' Zung [Dinh Dung] On the recovery and one-sided approximation of peri-	
odic functions of several variables	68
and cokernel of a singular integral operator with linear-fractional Carleman	
shift and with conjugation	743
Dzhabbarov, I. Sh. On an identity of harmonic analysis and its applications	57
Dzhangibekov, G. The Noether property and the index of a class of two-dimension	
singular integral operators	580
Egorov, Yu. V. and Nguen Min' Chi [Nguyen Minh Tri] Maximally hypoelliptic	
operators with noninvolutory characteristic set	585

Erunova, I. B. and Rivkind, V. Ya. On estimates of the rate of convergence of approximate methods of calculating the flow of a viscous incompressible	
fluid with a free surface in domains with corner points	158
Evtukhov, V. M. Asymptotic integration of linear systems of differential equations in the case of quasi-Jordan normal form of the principal coefficient	
	436
Fam Khy'·u T'ep [Pham Huu Tiep] See Kostrikin, A. I.	430
Fedotov, A. M. A numerical algorithm for extrapolating functions of Wiener	
	467
	395
Fomin, V. I. See Krein, S. G.	
Fonf, V. P. Topological properties of subsets and linear-topological properties	
	471
of Banach spaces	4/1
Gabasov, R., Kirillova, F. M., and Kostyukova, O. I. An optimization algorithm	20
for nonlinear dynamical systems	28
Gadzhiev, A. G. Statistical estimators in regression models	1
Galaktionov, V. A. See Vaskes, Khuan L. [Jaun L. Vázquez]	
Gaponenko, Yu. L. See Borovikov, V. P.	
Gavrilenko, Yu. V. Primitive recursion on finitely decomposable Cooper alge-	
bras	63
Geidarov, B. A. On the stability of solutions of Volterra equations of the first	
kind of convolution type	271
Gevorkyan, G. G. On the uniqueness of trigonometric series summable by	
Riemann's method	154
Giner, V. B. See Azarin, V. S.	
Godun, B. V. and Troyanski, S. L. Operators attaining their norms, and the	
geometry of the unit sphere of a Banach space	532
Gogatishvili, A. S., Kokilashvili, V. M., and Krbets [Krbec], M. Maximal func-	
tions in the classes $\varphi(L)$	488
Gol'dberg, V. N. On the well-posedness of the formulation of mixed problems	
for almost linear hyperbolic systems with two independent variables in a	
class of discontinuous solutions	491
Golichev, I. I. A three-level iterative method of Newton type	275
Golodets, V. Ya. and Voevoda, I. V. Borel parametrization of Polish groups and	213
	633
Goncharov, V. V. and Tolstonogov, A. A. On continuous selections and prop-	033
	861
erties of solutions of differential inclusions with m-accretive operators	
Gordon, E. I. Hyperfinite approximations of locally compact abelian groups	567
Grigor'ev, D. Yu. See Vorob'ev, N. N., Jr.	701
Grigoryan, M. G. On the convergence of Laplace and Fourier series	736
Groshev, L. N. Spaces of almost periodic functions of infinite order and theo-	
rems on the solvability of nonlinear equations	572
Gudivok, P. M., Oros, V. M., and Roiter, A. V. On representations of finite	
groups over a ring of formal power series with p-adic integer coefficients	280
Gurvich, V. A. A saddle point in pure strategies	497
See Obraztsov, I. F.	
Guseĭnov, E. G. See Salaev, V. V.	
Gvishiani, A. D. See Obraztsov, I. F.	
Il'in, V. A. On the Riesz basis property of systems of root vector-valued functions	
of a discontinuous Schrödinger operator with matrix potential	292

Isachenko, N. A. On uniformly quasiconformal discontinuous groups not iso- morphic to Möbius groups	125
Iskenderov, A. D. On conditional well-posedness of problems with an unknown	
	588
Ivanauskas, F. F. Difference schemes for nonlinear equations of Schrödinger	500
	287
7.7	201
Kachurovskii, A. G. Boundedness of fluctuation of sequences of means in the	010
20	810
Kalashnikov, V. V., Nosovskii, G. V., and Fomenko, A. T. Statistical analysis	1.00
0	168
Kalinin, A. I. An asymptotic method of constructing optimal controls with sin-	
	296
Kaplan, A. and Tikhachke [Tichatschke], R. A study of iterative processes for	
y	747
Kapustin, N. Yu. On unique solvability in the class $L_2$ of the Tricomi problem	
for a parabolic-hyperbolic equation with lower-order terms	72
Kapustin, N. Yu. and Sabitov, K. B. The Riccati equation in the theory of	
equations of mixed type	641
Karapetyants, N. K., Murdaev, Kh. M., and Yakubov, A. Ya. On an isomor-	
	446
Kasitskaya, E. I. and Knopov, P. S. Asymptotic behavior of empirical estimators	
	751
Katrakhov, V. V. See Kipriyanov, I. A.	
Kats, B. A. On conditions for solvability of the Riemann boundary value prob-	
lem on nonsmooth curves	302
Kazantsev, S. G. See Bukhgeim, A. L.	502
Khanin, L. G. Kantorovich-Rubinshtein duality for Lipschitz spaces defined by	
differences of arbitrary order	220
Kharatishvili, G. L. and Tadumadze, T. A. Regular perturbations in optimal	220
control problems with variable delays and a free right end	399
Kheifits, A. I. Distribution of values and representations of generalized subhar-	377
	527
monic functions	
Khisamiev, N. G. Constructive Abelian p-Groups	225
Khripta, I. I. See Bovdi, A. A.	
Kipriyanov, I. A. and Katrakhov, V. V. On a boundary value problem for	0.77
second-order elliptic equations in domains on the sphere	37
Kirichuk, P. A. On an operator-valued function of Mittag-Leffler type and a	
probabilistic formula for the solution of the abstract Cauchy problem	866
Kirillova, F. M. See Gabasov, R.	
Kirzhner, V. M. See Alekseeva, E. I.	
Knopov, P. S. See Kasitskaya, E. I.	
Knyazev, A. V. See Bakhvalov, N. S.	
Kokilashvili, V. M. See Gogatishvili, A. S.	
Kolesov, A. Yu. and Kolesov, Yu. S. Bifurcation of self-oscillations of the sin-	
gularly perturbed wave equation	754
Kolesov, Yu. S. See Kolesov, A. Yu.	
Konyukhova, N. B. On the existence and uniqueness of time-bounded solutions	
of systems of evolution quasilinear partial differential equations of first order	871
Kopachevskii, N. D. Inversion of Lagrange's theorem on the stability of small	
oscillations of a capillary viscous liquid	307

Korenevskii, D. G. An algebraic coefficient criterion for convergence "with margin" (exponential stability) of solutions of linear time-invariant difference equations	174
	310
Korobeĭnik, Yu. F. On some applications of nontrivial expansions of zero in the theory of convolution operators	177
	502
	538
Kostyukova, O. I. See Gabasov, R.	
$Kovtunets, V.\ V. \ \ \textit{Differentiability of the operator of best uniform approximation}$	
of complex-valued functions	41
Krasnosel'skii, M. A. See Bobylev, N. A.	
Kravchenko, V. G. See Drekova, G. V.	
Kravtsov, M. K. Polyhedral aspects of multi-index transport problems with ax- ial sums	890
Krbets [Krbec], M. See Gogatishvili, A. S.	070
Krein, S. G. and Fomin, V. I. Small perturbations of singular differential equa-	
tions with unbounded operator coefficients	313
Krot, A. M. On the multiplicative complexity of bilinear forms for which the	
Vandermonde transformation is an eigentransformation	646
Kruzhkov, S. N. and Panov, E. Yu. Conservative quasilinear first-order laws	216
with an infinite domain of dependence on the initial data	316
equations of gas dynamics	713
Kuchment, P. A. and L'vin, S. Ya. The range of the exponential Radon trans-	
form	183
Kudryavtsev, L. D. Necessary and sufficient conditions for stabilization of a	006
function to a polynomial as the argument tends to infinity	886 838
Kufarev, B. P. New oscillation inequalities and some of their applications Kurbanshoev, S. Z. On the behavior of integral curves on holomorphic integral	030
manifolds	761
Kurzhanskii, A. B. and Sivergina, I. F. On nonreversible evolution systems:	
guaranteed estimation and regularization problems	451
Kuzin, I. A. On a variational method of finding critical points of a functional,	
and its application	322
Kuz'michev, V. V. On conditions for the removal of singularities in the metric	
C in terms of a notion of dimension	757
Kuz'min, E. N. On a class of irreducible polynomials over a finite field	45
Larionov, E. A. Localization of eigenvalues and root vectors under a weak per- turbation	185
Lazutkin, V. F. On the width of the instability zone near the separatrices of a	105
standard mapping	5
Le Khong Van [Le Hong Van] Globally minimal homogeneous spaces in regular	
orbits of the adjoint representation of classical Lie groups	592
Leonov, A. S. On the theory of the minimal pseudoinverse matrix method	327
Levchuk, V. M. Central and derived series of certain subgroups of Chevalley	
groups	82

Levendorskii, S. Z. An algebra of boundary value problems for a class of pseudodifferential operators of variable order	77
Linke, Yu. E. The problem of the existence of a subdifferential for continuous	
	842
, , , , , , , , , , , , , , , , , , , ,	846
L'vin, S. Ya. See Kuchment, P. A.	
-,	765
Maiorov, V. E. On a multiplicative inequality for derivatives and its applications Makarov, B. M. A characterization of universally regular operators and opera-	770
	596
	190
	773
Mal'kov, K. V. A nonselfadjoint L-A representation for certain nonlinear non-	
	333
Martines, M. D. [Ma Dolores Martinez] See Martines, S. [Celso Martinez]	
Martines, S. [Celso Martinez], Sans, M. [Miguel Sanz], and Martines, M. D. [Ma	
Dolores Martínez] Some inequalities for fractional integrals and deriva-	
tives	876
Maslennikova, V. N. and Timoshin, M. A. On the $L_p$ -theory for the Stokes	
problem in unbounded domains with compact boundary	197
Mel'nik, V. S. On extremal problems for differential-operator systems	340
Men'shikh, O. F. On the Cauchy problem and boundary value problems for a	
class of systems of quasilinear hyperbolic equations	346
Mikityuk, I. V. See Bogolyubov, N. N.	
Mironov, A. M. Universal decomposable systems	777
Mishchenko, S. P. On varieties of solvable Lie algebras	202
Moiseev, E. I. On the basis property of the eigenfunctions of a nonlocal boundary	
value problem	49
Monastyrnyi, A. P. and Yanchevskii, V. I. Whitehead groups of algebraic groups	
of classical type, and R-equivalence	351
Murdaev, Kh. M. See Karapetyants, N. K.	
Nazarov, V. I. Solvability of linear differential-operator equations in Roumieu	
scales constructed with respect to a given unbounded linear operator	507
Nguen Min' Chi [Nguyen Minh Tri] See Egorov, Yu. V.	
Nikolaevskii, Yu. A. Submanifolds of Euclidean space with totally geodesic	
Gauss image	456
Nikol'skii, S. M. Approximation on a manifold by traces of functions of expo-	
nential type	543
Traces of entire functions of exponential type on manifolds	511
Nosovskii, G. V. See Kalashnikov, V. V.	
Obraztsov, I. F., Gvishiani, A. D., and Gurvich, V. A. Computation of schemes	
by "rudder" and "ladder" algorithms	651
Oganesyan, A. O. Construction of hyperbolic equations with variable coeffi-	
cients, satisfying Huygens' principle	600
Oros, V. M. See Gudivok, P. M.	
Ostapenko, V. V. Approximation of conservation laws by through computation	
difference schemes	206
Panov, E. Yu. See Kruzhkov, S. N.	
Pechenev, A. V. Averaging systems with a hierarchy of phase rotation speeds	
on a substantially long time interval	718

Pesenson, I. Z. The Bernstein inequality in representations of Lie groups	87
Podol'skii, V. E. On the recovery of the Sturm-Liouville operator from its weighted	1
zeta function	53
	129
	356
	547
Pokhozhaev, S. I. On classes of positivity of elliptic operators in $\mathbb{R}^N$ with a	
	515
. On the solvability of an elliptic problem in $\mathbb{R}^n$ with a supercritical index	010
of nonlinearity	215
Popov, D. A. and Sushko, D. V. On the convergence of algorithms for numerical	213
solution of a convolution equation	784
Popov, L. Yu. Justification of a model of slits of zero width for the Neumann	707
problem	91
problem	91
Potapov, M. M. On a stable method for solving an operator equation in the	211
presence of a constraint	211
Prikarpat-skii, A. K. See Bogolyubov, N. N.	
Prilepko, A. I. and Vasin, I. A. Some time-dependent inverse problems of hy-	604
drodynamics with final observation	604
Radkevich, E. V. Asymptotic expansions of solutions of parabolic boundary	260
value problems with a free boundary	360
On the spectrum of the pencil of the two phase Stefan problem	658
Radzhabov, È. L. On a generalization of fractional integration and differentia-	
tion operators	813
Ragimov, M. B. Operator pencils and almost periodicity of bounded solutions	
of second-order differential equations	608
Rapinchuk, A. S. The congruence problem for arithmetic groups of finite width	664
Representations of groups of finite width	816
Rivkind, V. Ya. See Erunova, I. B.	
Roiter, A. V. See Gudivok, P. M.	
Ronkin, L. I. Subharmonic functions of completely regular growth in a closed	
cone	669
Rusak, V. N. Sharp orders of best rational approximations of the convolution	
of a Weyl kernel and a function in L <sub>p</sub>	789
Ryazanov, V. I. A closure theorem for quasiconformal mappings with integral	
constraints	821
	793
Ryshkov, S. S. and Erdal [Erdahl], R. M. Dual systems of integer vectors and	
their applications.	366
Rzaev, R. M. A multidimensional singular integral operator in spaces defined	500
by conditions on the mean oscillation of functions	520
Sabinin, L. V. On smooth hyporeductive loops	524
Sabitov, K. B. Inversion of some integral equations of Volterra type	460
Sadybekov, M. A. On the adjoint Darboux problem	464
Sagitov, S. M. A Bellman-Harris branching process starting with a large number	
of particles	372
Salaev, V. V., Guseinov, E. G., and Seifullaev, R. K. The Plemelj-Privalov the-	
orem	849
Sans, M. [Miguel Sanz] See Martines, S. [Celso Martinez]	

Sarychev, A. V. On homotopy properties of the space of trajectories of a completely nonholonomic differential system	674
Satimov, N. Yu. On methods of solving game problems of control of pencils of	-
	376
Seĭfullaev, R. K. See Salaev, V. V.	
	722
	679
Seregin, G. A. On the regularity of weak solutions of variational problems in	
	683
Shakhmurov, V. B. and Babaev, Azad A. Coercive problems for an equation	
with parameters	728
Shelepov, V. Yu. and Tedeev, Al-dr F. On an inequality for solutions of elliptic	
equations and its application in the theory of boundary properties	732
Shelkovich, V. M. An associative algebra of distributions and multipliers	409
Shteinberg, A. M. See Semenov, E. M.	
Shul'man, V. S. Multiplication operators and spectral synthesis	133
Sinëv, V. A. On Kufarev's method of determining the parameters in the Schwarz-	
Christoffel integral	895
Sivergina, I. F. See Kurzhanskii, A. B.	
Skrypnik, I. V. Averaging nonlinear Dirichlet problems in domains with chan-	
nels	853
Sobolevskii, P. E. See Agranovich, Yu. Ya.	
Soldatov, A. P. Asymptotics of the solutions of boundary value problems for	
elliptic systems near corner points	725
Solov'ev, V. N. Duality of nonconvex extremal problems	380
Soltan, P. S. See Boltyanskii, V. G.	
Stanyukovich, K. P. See Antonyuk, P. N.	
Stetsenko, V. A. On a necessary condition for premaximal bases in P2	898
Strugov, Yu. F. On the continuity of p-capacity	384
Strunkov, S. P. On the characters of minimal p-defect in finite groups	689
Sukochev, F. A. and Chilin, V. I. Symmetric spaces on semifinite von Neumann	
algebras	97
Sushko, D. V. See Popov, D. A.	
Tadumadze, T. A. See Kharatishvili, G. L.	
Tarkhanov, N. N. Approximation in Sobolev spaces by solutions of elliptic sys-	
tems	902
Tedeev, Al-dr F. See Shelepov, V. Yu.	
Tikhachke [Tichatschke], R. See Kaplan, A.	
Timoshin, M. A. See Maslennikova, V. N.	
Tkachenko, V. A. See Belitskii, G. R.	
Tkachev, V. G. Some estimates of the mean curvature of graphs over domains	
in $\mathbb{R}^n$	387
Tolstonogov, A. A. See Goncharov, V. V.	
Tomchin, I. L. and Yanchevskii, V. I. On the defect of a valuation division ring	
Trofimov, V. I. Stabilizers of the vertices of graphs with projective suborbits	825
Troyanski, S. L. See Godun, B. V.	
Tulyaganov, S. T. Comparison of sums of multiplicative functions	829
On a conjecture concerning sums of multiplicative functions	796
Sums of multiplicative functions	391
Tumashev, Yu. S. Determination of the convolution of inverse matrices defined	
in a class of functions of two variables	102

Ul'yanov, P. L. On properties of functions in the Gevrey classes	550
Umarov, Kh. G. The Cauchy problem in a Banach space for an analogue of	
the diffusion equation not solved for the time derivative	693
Varlamov, V. V. On a hyperbolic equation describing wave processes in media	
with dispersion and absorption	256
Varpakhovskii, F. L. On the question of axiomatization of realizable proposi-	
tional formulas	260
Vasin, I. A. See Prilepko, A. I.	
Vaskes, Khuan L. [Jaun L. Vázquez] and Galaktionov, V. A. Asymptotic be-	
havior of solutions of a nonlinear diffusion-absorption equation with critical	
exponent	484
Vodop'yanov, S. K. Weighted L <sub>p</sub> potential theory on homogeneous groups	265
Voevoda, I. V. See Golodets, V. Ya.	
Vorob'ev, N. N., Jr. and Grigor'ev, D. Yu. Determination of the number of	
connected components of a semialgebraic set in subexponential time	563
Vu Kim Tuan The modified Laplace transform and the multidimensional H-	150
transform	150
Yakubov, A. Ya. See Karapetyants, N. K.	
Yanchevskii, V. I. See Monastyrnyi, A. P.	
See Tomchin, I. L.	
Yarakhmedov, G. Ya. On Tchebycheff approximation by generalized rational	415
fractions in the space of N-bounded real-valued functions	415
Yunusov, M. Yu. On junction problems for differential-operator equations with	110
a small parameter	112
Yurko, V. A. Recovery of differential operators from the Weyl matrix	229
Zaĭdenberg, M. G. Ramanujam surfaces and exotic algebraic structures on $\mathbb{C}^n$ ,	(2)
$n \ge 3$	636
Zheludev, V. A. An operational calculus connected with periodic splines	162
Zubov, V. I. Ergodic behavior of macroparameters	284
A finite-dimensional characterization of probability distributions	441
Integral equations for the Lyapunov function	535



